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(54) PRODUCTION OF CALCIUM PHOSPHATE FIBER

(57)Abstract:

PURPOSE: The starting materials, which, after melted, will contain specific amounts of calcium oxide and phosphorus pentoxide at a specified molar ratio of Ca/P, are melted and made into fiber to produce the titled fiber of high strength that is suitably used to fill defect parts of living bones.

CONSTITUTION: The starting materials, which will contain more than 8wt% of calcium oxide and phosphorus pentoxide at a Ca/P molar ratio of 0.6W1.7 after melted, preferably calcium phosphate and/or a mixture of phosphoric acid and calcium substance, are preferably pyrolyzed, melted and made into fiber under forced cooling of the nozzle to give the objective fiber. The above melting process preferably contains preliminary melting stage, cooling one and remelting one.

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